

Aim:

To write a python code to blink a led and traffic lights for raspberry pi.

Code:

```
import RPi.GPIO as GPIO

import time

LED_PIN = 17

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN, GPIO.OUT)

while True:

    GPIO.output(LED_PIN, GPIO.HIGH)

    time.sleep(1)

    GPIO.output(LED_PIN, GPIO.LOW)

    time.sleep(1)

GPIO.cleanup()
```

Code:

```
from gpizero import Button, TrafficLights , Buzzer

from time import sleep

button=button(21)

lights=Trafficlights(25,8,7)

buzzer=Buzzer(15)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    lights.green.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

```
    lights.red.on()
```

```
    sleep(1)
```

Result :

Thus the code to blink led and traffic lights verified and executed successfully.